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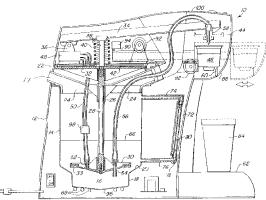
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM FOR MONITORING AND CONTROLLING THE OPERATION OF A SINGLE SERVE BEVERAGE BREWER



(57) Abstract: An automated beverage brewing system includes a liquid storage tank and a metering chamber. The metering chamber is at least partially submerged beneath a standing level of liquid in the storage tank. The chamber includes a sealable liquid inlet port communicating with the interior of the storage tank beneath the standing level of liquid. The chamber also includes a liquid outlet port and an aperture that receives compressed air, wherein the compressed air forces liquid from the liquid output port of the chamber for use in preparing a brewed beverage. A pump provides the compresses air and a controller monitors a pressure signal value indicative of the air pressure in the metering chamber. The controller commands the pump on to commence flow of liquid from the metering chamber. The controller then commands the pump off several seconds after detecting a drop in air pressure within the chamber. A baffle is affixed to the distal end of a shaft, which is moved between a first and second position. In the second position the baffle seals a section of the storage tank to form the metering chamber. The system may also include a second brew pump that allows a user to costumize the quantity of liquid delivered from the brewing system for a stronger brewed beverage.



INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/12291

	PC1/05		02/12291	
A. CLASS IPC 7	FIFICATION OF SUBJECT MATTER A47J31/40 A47J31/32			
According	to International Patent Classification (IPC) or to both national classificat	ion and IPC		
	SEARCHED			
Minimum d	ocumentation searched (classification system followed by classification A47J B67D	n symbols)		
	ation searched other than minimum documentation to the extent that su		rched	
	data base consulted during the international search (name of data base	e and, where practical, search terms used)		
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.	
Υ	US 6 142 063 A (BEAULIEU RODERICK AL) 7 November 2000 (2000-11-07) column 2, line 21 -column 7, line figures 1,4A	1-3, 18-20		
Υ	US 3 085 495 A (EDWARD ROSANDER A 16 April 1963 (1963-04-16) column 2, line 29-62; figure 1	1-3, 18-20		
A	US 5 111 740 A (KLEIN PETER) 12 May 1992 (1992-05-12) figure 1		1-3, 18-20	
A	US 6 082 247 A (BEAULIEU RODERICH AL) 4 July 2000 (2000-07-04) the whole document	CH ET	1,18	
Fu	rther documents are listed in the continuation of box C.	X Patent family members are listed	n annex.	
° Special c	categories of cited documents:		A 1 (0)	
"A" docum	nent defining the general state of the art which is not idered to be of particular relevance or document but published on or after the international	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the o	the application but eory underlying the	
filing "L" docum whic	date nent which may throw doubts on priority claim(s) or h is cited to establish the publication date of another on or other special reason (as specified)	cannot be considered novel or cannol involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an in	be considered to cument is taken alone laimed invention ventive step when the	
other "P" docum	nent referring to an oral disclosure, use, exhibition or rmeans nent published prior to the international filling date but than the priority date claimed	document is combined with one or moments, such combination being obvior in the art. "8." document member of the same patent	ore other súch docu- us to a person skilled	
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report	
	6 September 2002	0'5. 12. 2002		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		Authorized officer		
1	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Van Bastelaere,	Γ	

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INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows: see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7, 18-21
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: Independent claims 1, 18 and dependent claims 2-7, 19-21:

A brewer system for brewing a beverage from an extract contained in a sealed disposable cartridge

2. Claims: Independent claim 8 and dependent claims 9-17

A system for repeatedly delivering a volume of heated liquid

INTEMNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/US 02/12291

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